

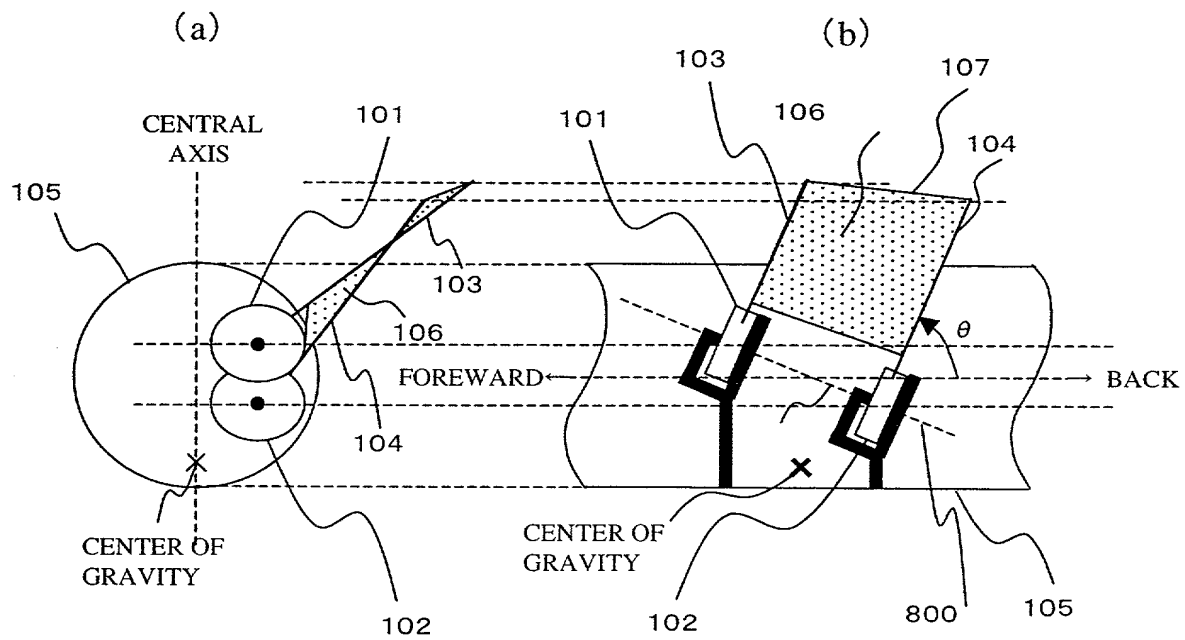
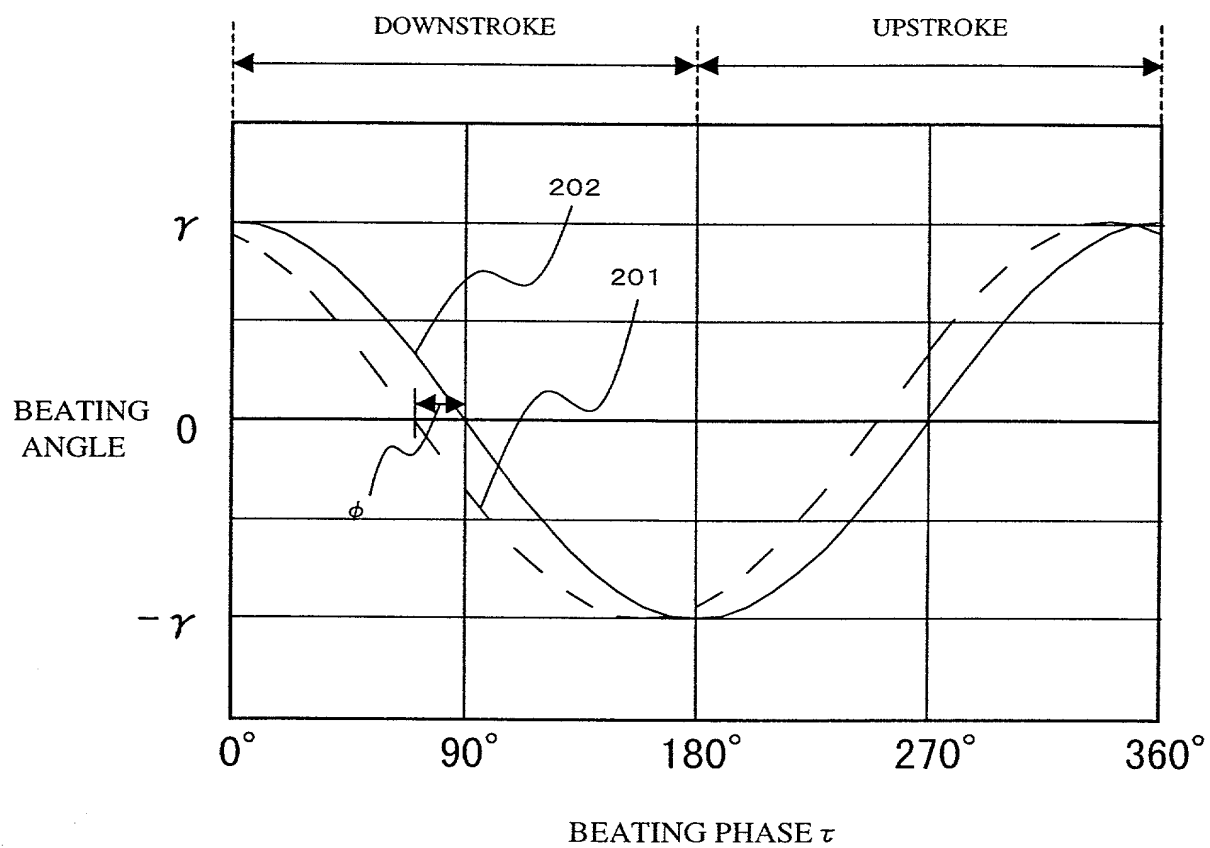
[illegible]

FIG.2



20220718190001

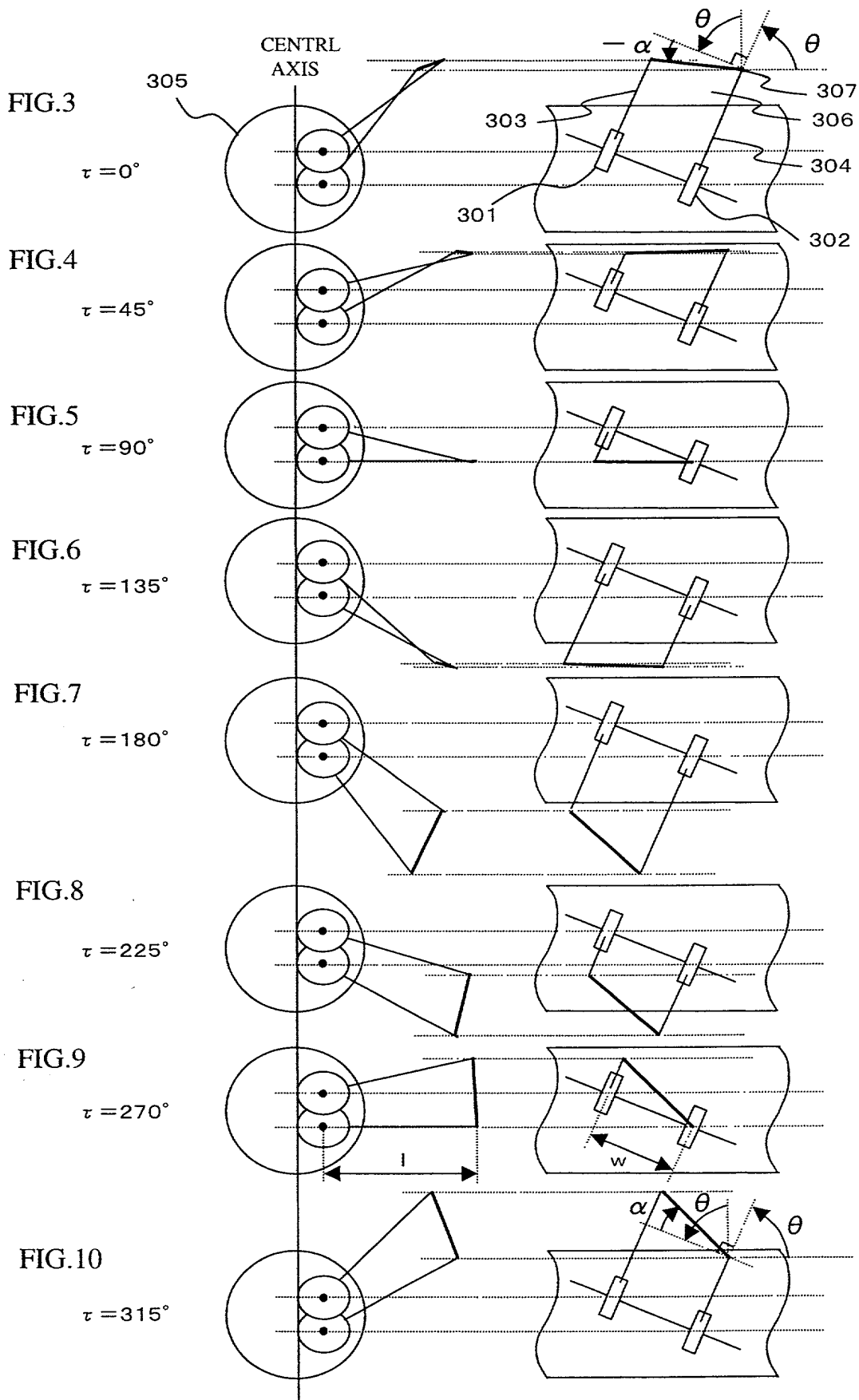


FIG.11

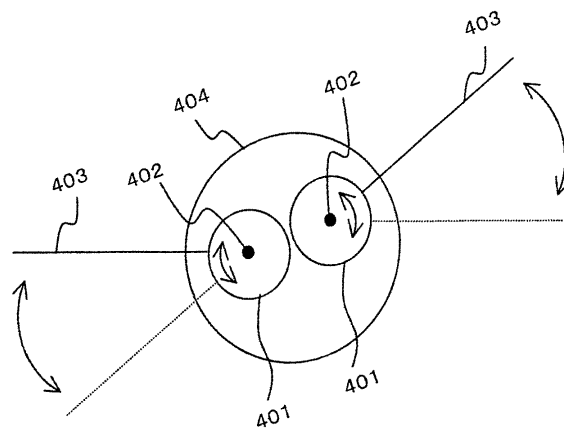


FIG.12

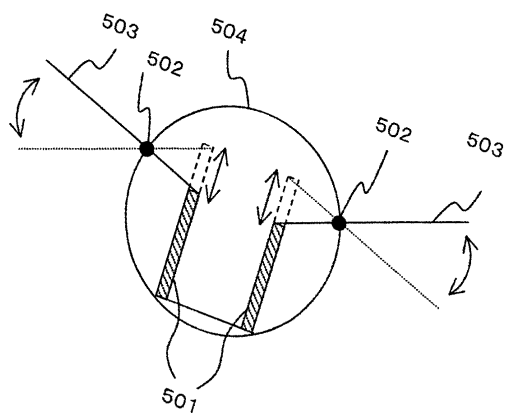
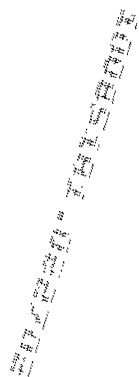


FIG.13

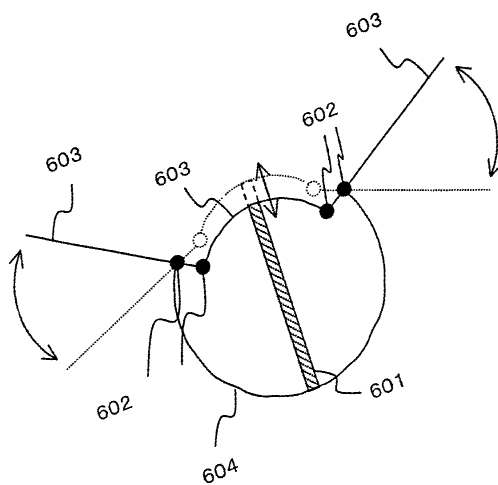


FIG.14

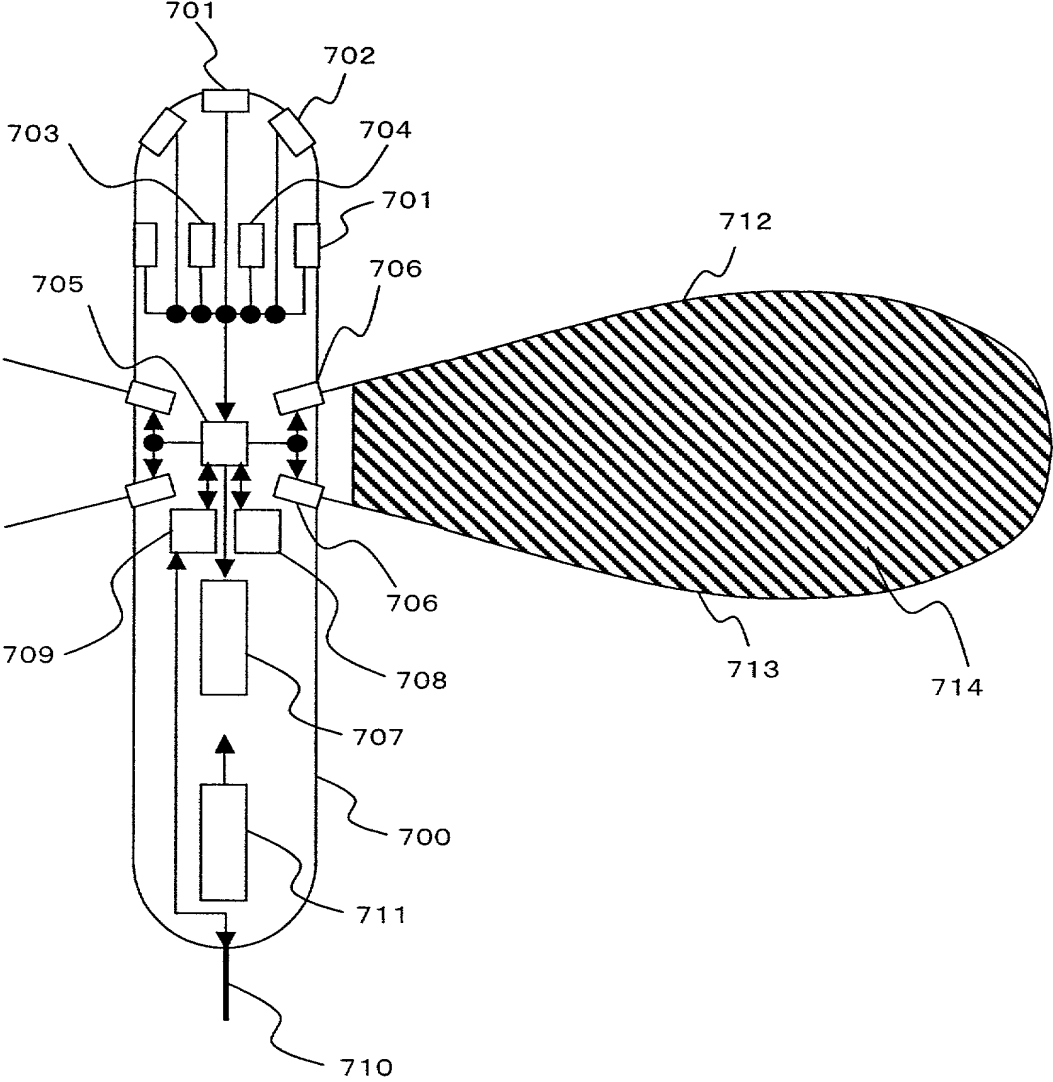


FIG.15

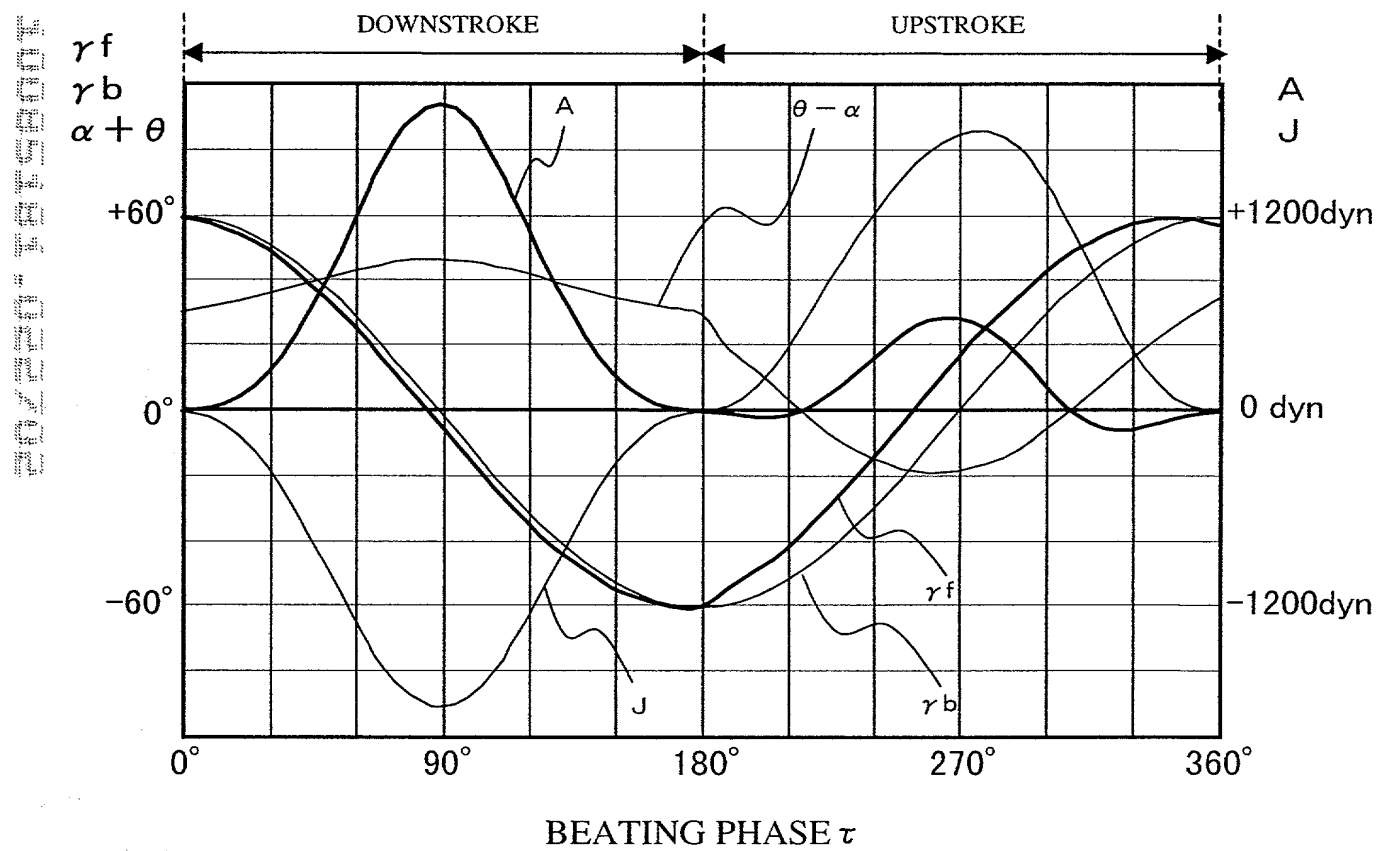
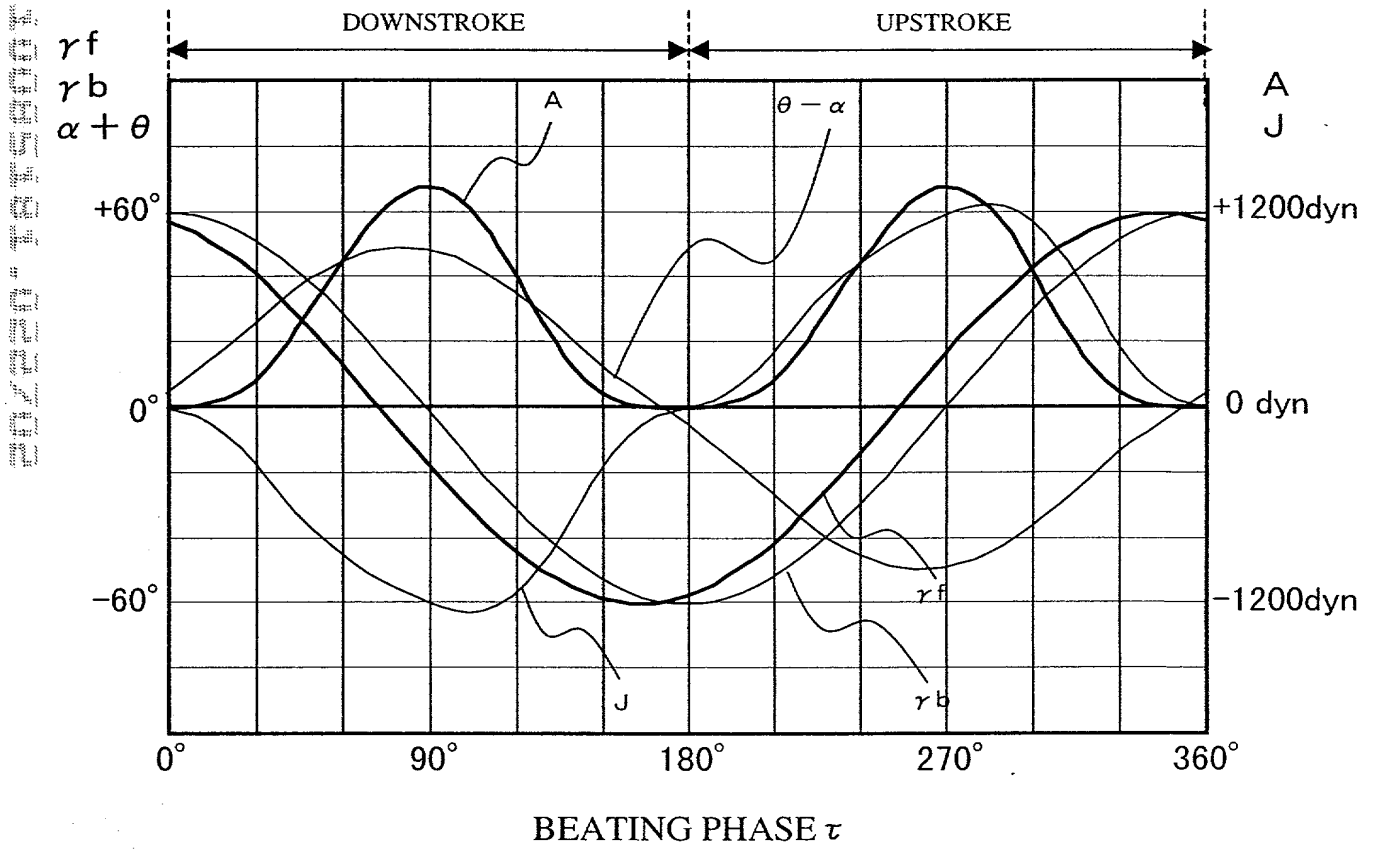




FIG.16



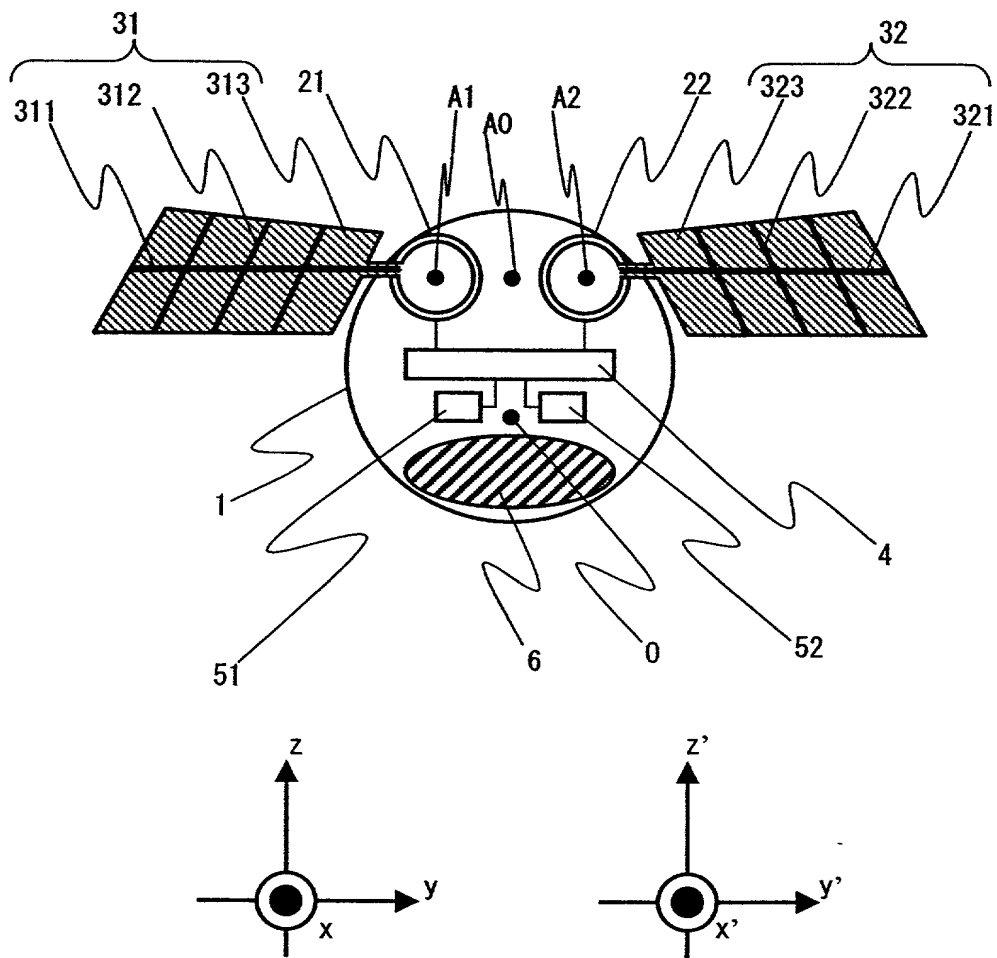


FIG. 17

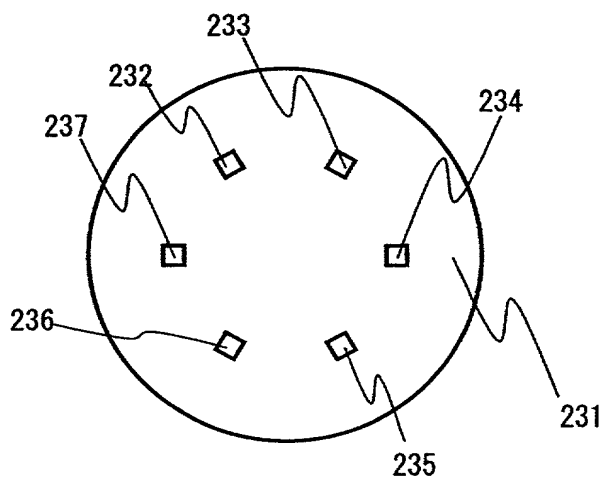


FIG. 18

202201045001

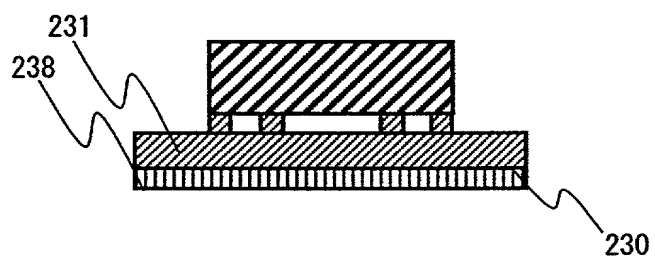


FIG. 19

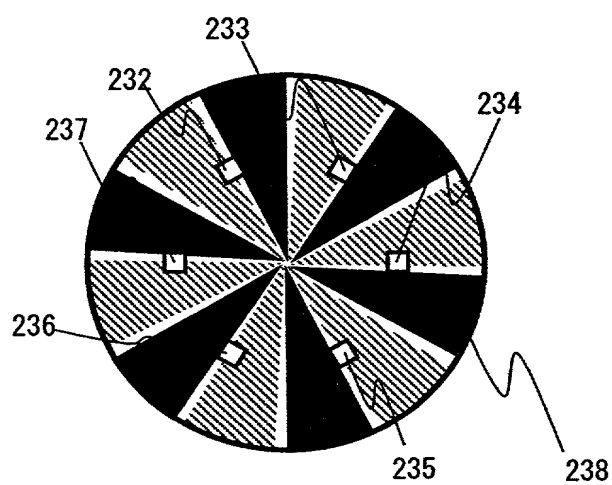


FIG. 20

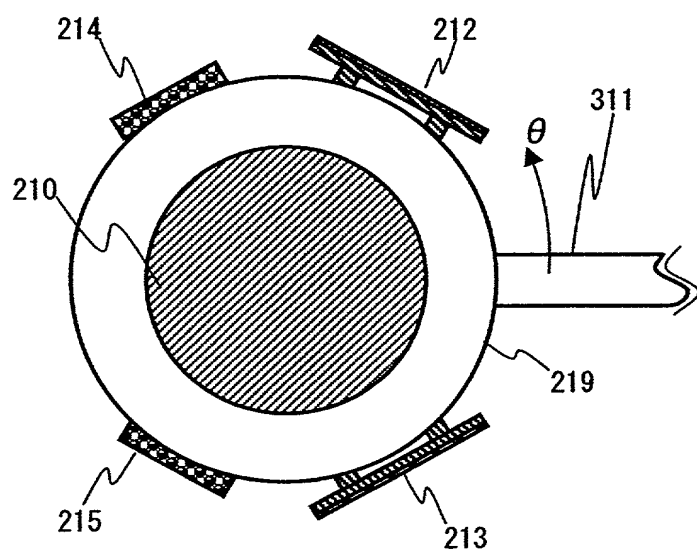


FIG. 21

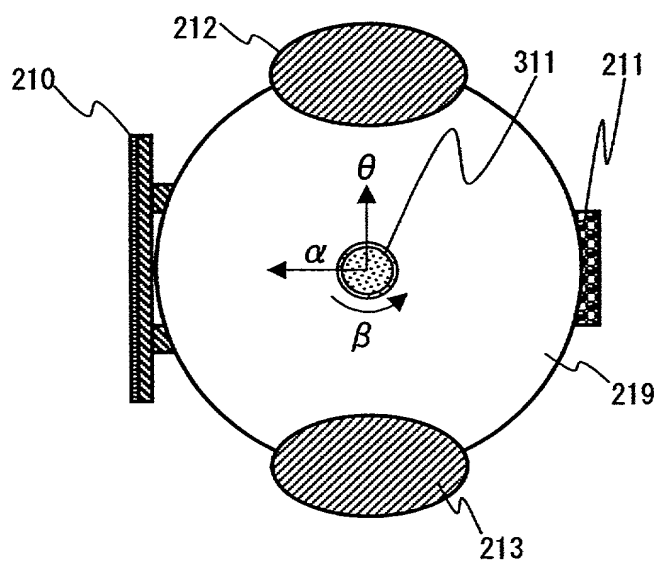


FIG. 22

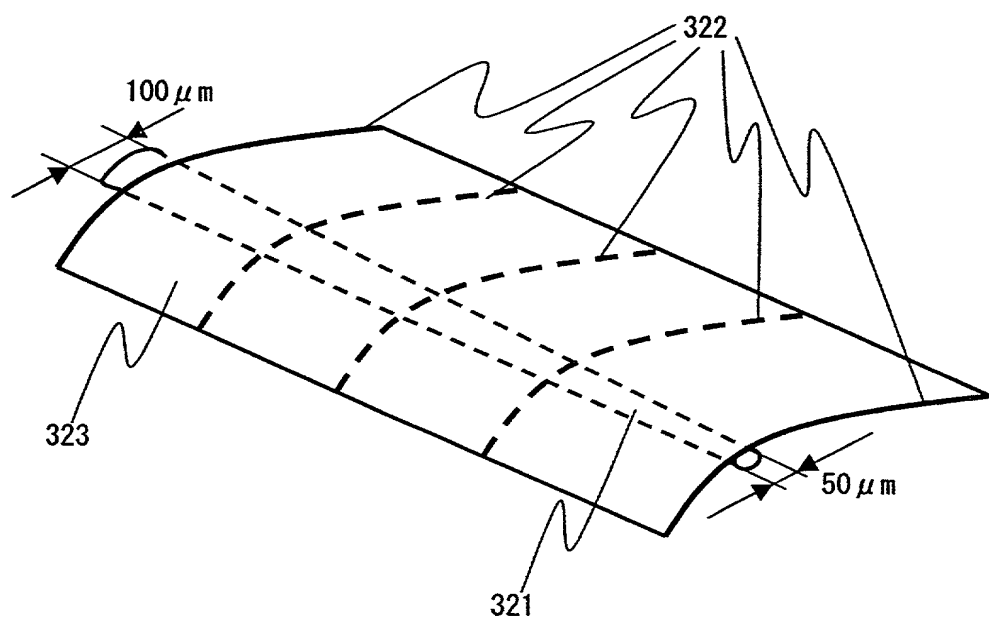


FIG. 23



2022010155001

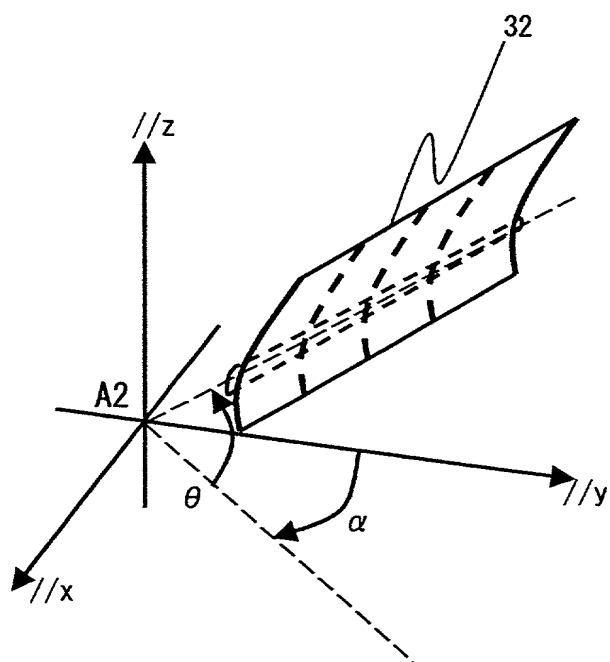


FIG. 24

FIG. 24

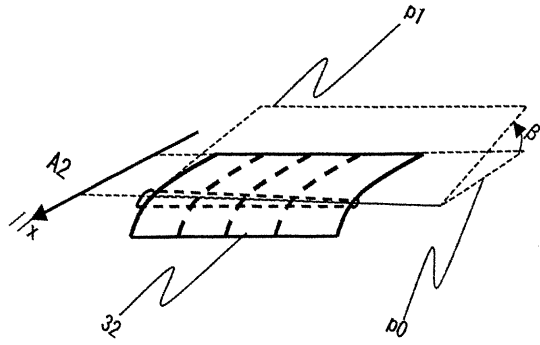


FIG. 25

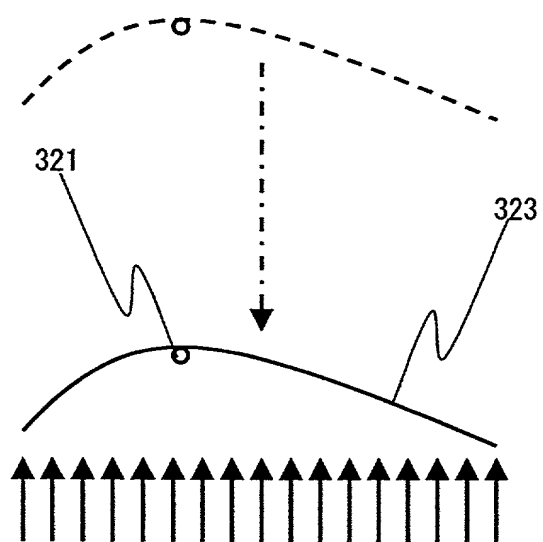


FIG. 26

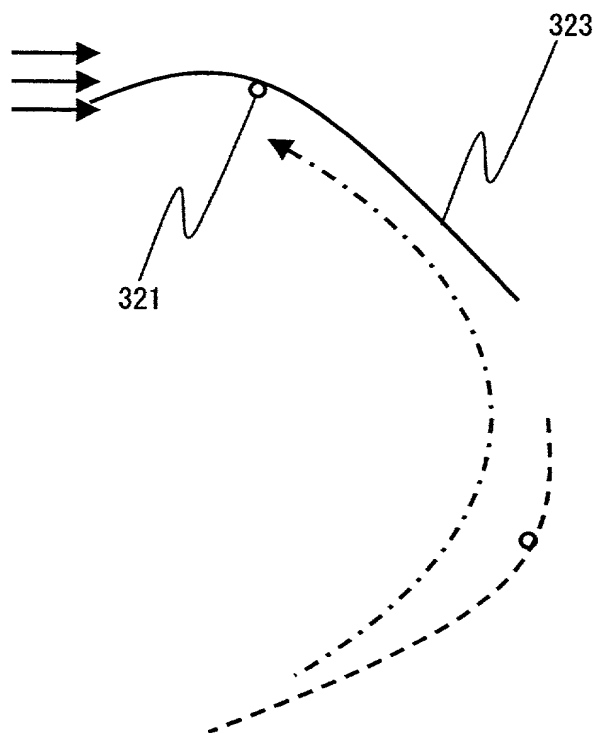


FIG. 27



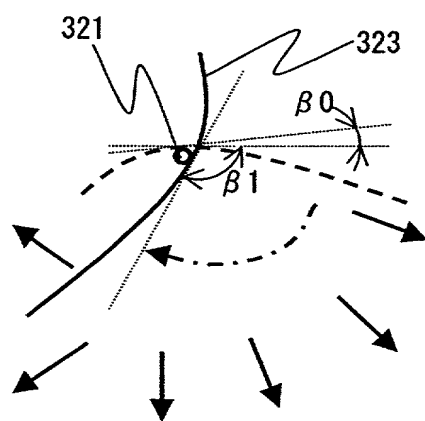


FIG. 29

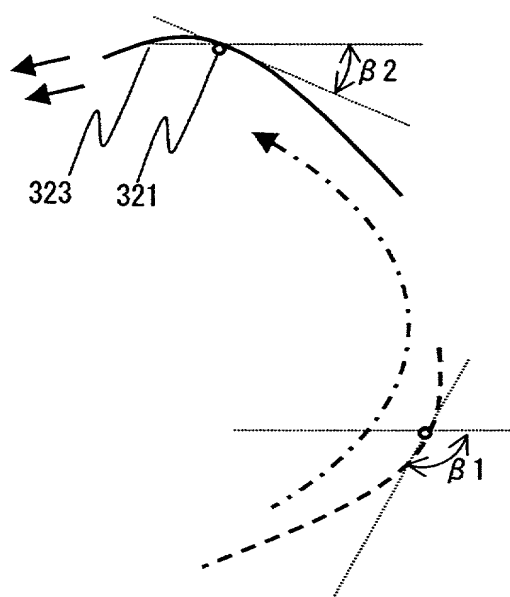


FIG. 30

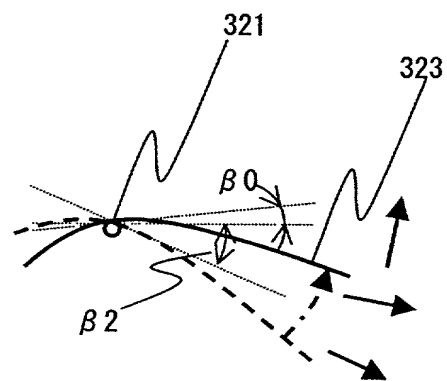


FIG. 31



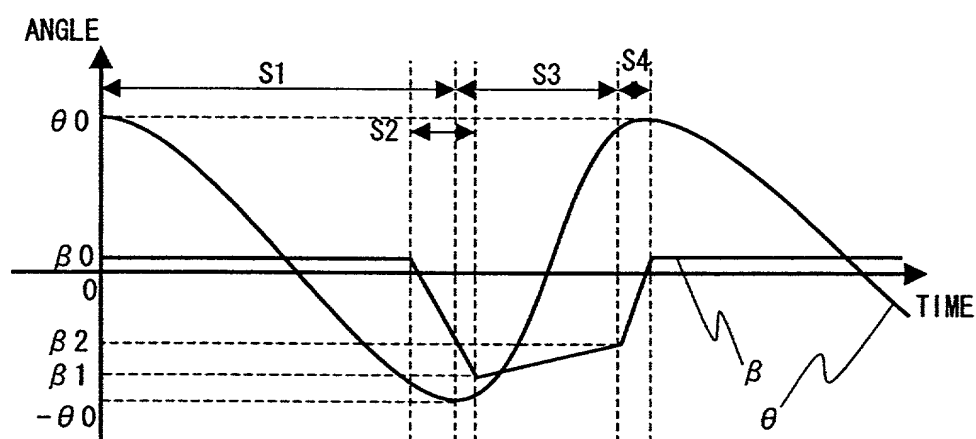


FIG. 32

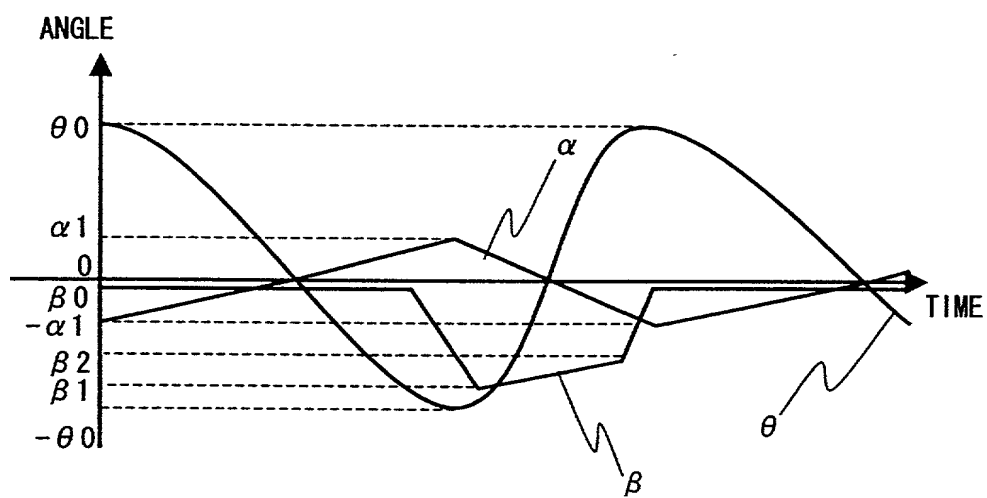


FIG. 33

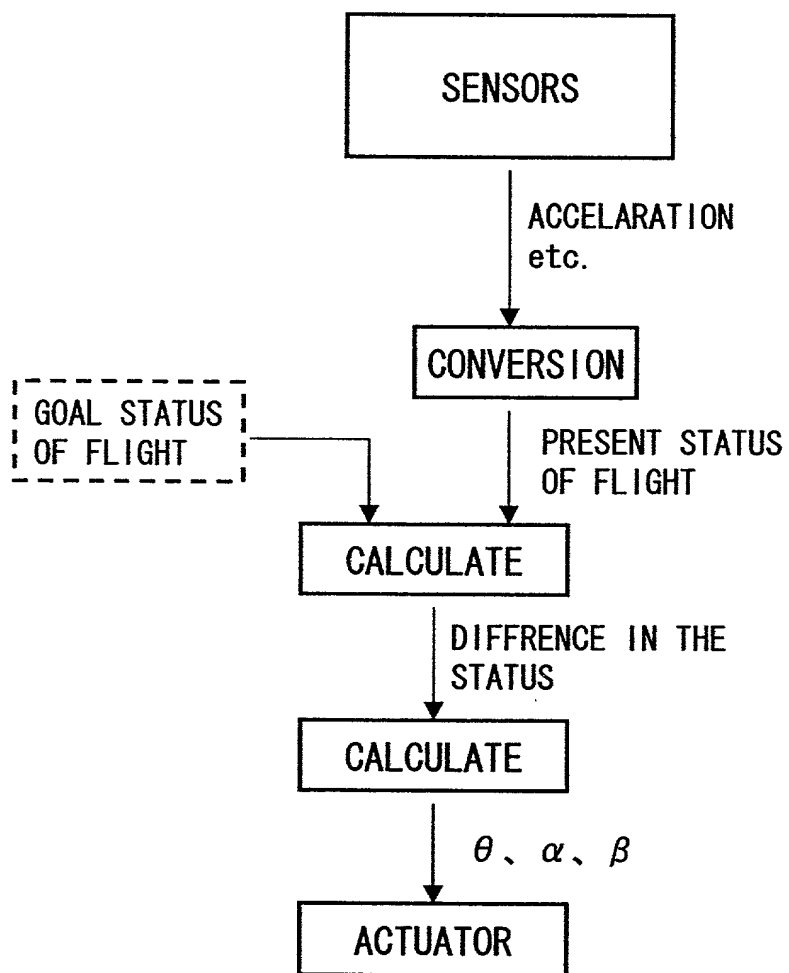


FIG. 34

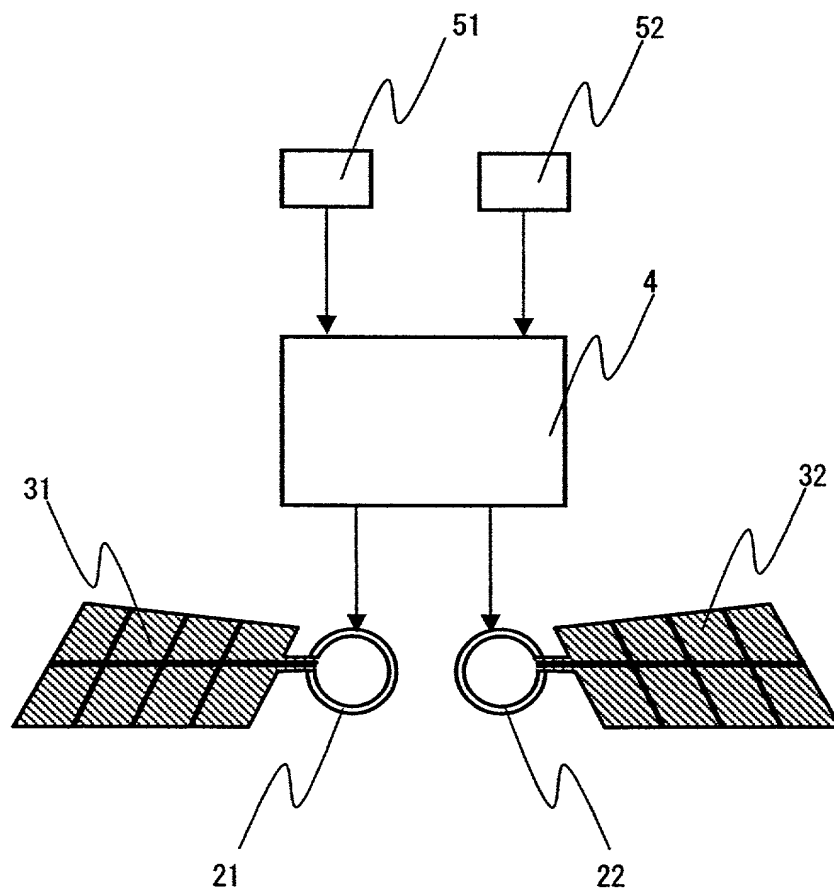


FIG. 35

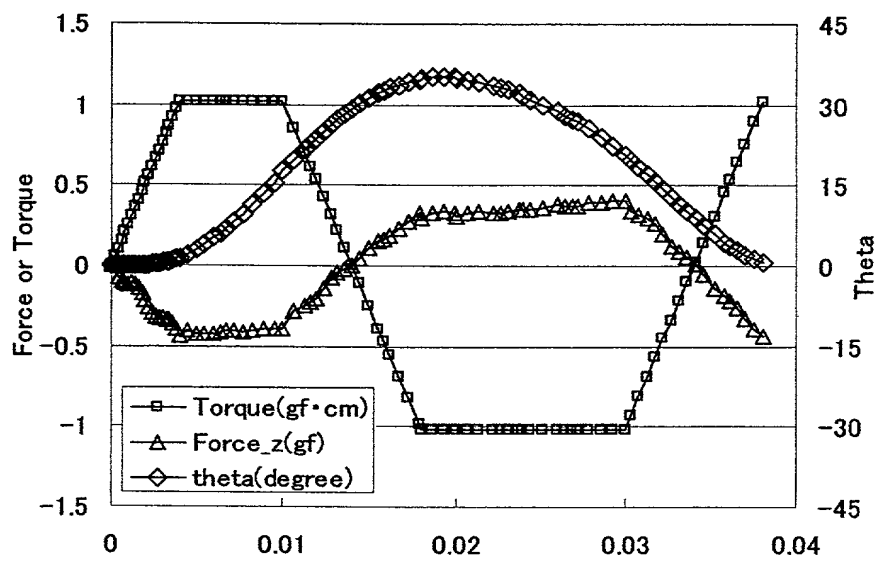


FIG. 36

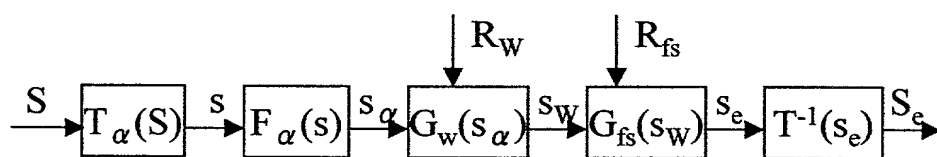


FIG. 37

		$x''$	$+x''$	$-z''$	$+z''$	$-\theta_y''$	$+\theta_y''$
S1	stroke $\theta \uparrow$						
	stroke $\theta \downarrow$						
	$-d\theta/dt \uparrow$						
	$-d\theta/dt \downarrow$						
	$-d\alpha/d\theta > d\alpha_{th}$						
	$-d\alpha/d\theta < d\alpha_{th}$						
	$\beta$ is about vertical to stroke direction.						
	$\beta$ is not vertical to stroke direction.						
	$\beta > 0$						
S2	$\beta < 0$						
	$-d\beta/dt \uparrow$						
S3	$-d\beta/dt \downarrow$						
	stroke $\theta \uparrow$						
	stroke $\theta \downarrow$						
	$d\theta/dt \uparrow$						
	$d\theta/dt \downarrow$						
	$d\alpha/d\theta > d\alpha_{th}$						
	$d\alpha/d\theta < d\alpha_{th}$						
	$\beta$ is about vertical to stroke direction.						
	$\beta$ is not vertical to stroke direction.						
S4	$d\beta/dt \uparrow$						
	$d\beta/dt \downarrow$						

11

	RIGHT ACTUATOR		LEFT ACTUATOR	
	DRIVING FREQ.	MOTION PATTERN	DRIVING FREQ.	MOTION PATTERN
UP	35Hz	B	35Hz	B
DOWN	25Hz	B	25Hz	B
GO FORWARD	30Hz	A	30Hz	A
HOVER	30Hz	B	30Hz	B
TURN RIGHT	30Hz	B	30Hz	A
TURN LEFT	30Hz	A	30Hz	B

FIG. 39



FIG.40

